

Authors

Corwin A. Bennett

B.S., Iowa State College, 1950; M.A., University of Nebraska, 1951; Ph.D., University of Nebraska, 1954. Joined IBM in 1954 as an engineering psychologist in Applied Research and Advanced Development at the Owego plant and is currently Manager of Human Factors. Member of American Psychological Association, Society of Engineering Psychologists and Human Factors Society.

Gerrit A. Blaauw

B.S. in Electrical Engineering, Lafayette College, 1948; Ph.D. in Applied Science, Harvard University, 1952. While at Harvard, was a member of the staff of the Computation Laboratory and participated in the design of the Mark III and Mark IV calculators. From 1952-1955 was a member of the staff of the Mathematics Center in Amsterdam, Netherlands, where he cooperated in the design of the ARRA and FERTA computers. Joined IBM in 1955 at the Poughkeepsie Product Development Laboratory. He has been engaged in the systems planning of various machine projects; is a member of the Association of Computing Machinery, IRE and Sigma Xi.

Russell K. Brunner

B.S.M.E., University of California, 1952. Worked as Design Engineer at Minneapolis Honeywell Regulator Co., 1952-1953, and was also design engineer at Friden Inc., 1953-1956. Since joining IBM in 1956 at the San Jose Product Development Laboratory, he has worked on random access files. Member of NSPE, Phi Beta Kappa, Tau Beta Pi, Pi Tau Sigma, and Associate Member of Sigma Xi.

Bradford Dunham

William and Mary College, B.A., 1943; Harvard University, M.A., 1948; Ph.D., 1950. Joined IBM Physical Research Department in January 1955 as an Associate Logician. Is presently an advisory logician engaged in theory of information processing project in the Poughkeepsie Research Laboratory and is primarily engaged in the study of interrelationship of logic and computing machines. Was awarded Harvard University's Sheldon Travelling Fellowship in 1948. He was an instructor at Duke University, 1950-1953, and is a member of Phi Beta Kappa and a member of the Association for Symbolic Logic.

Richard M. Friedberg

B.A. in Mathematics, summa cum laude and other honors, Harvard University, 1956 and later attended Harvard Medical School. Is now attending Graduate School at

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William A. Gross

B.S., U. S. Coast Guard Academy, 1945; M.S. in Applied Mechanics, University of California, 1949; Ph.D. in Applied Mechanics, University of California, 1951. Joined IBM in 1956 and is a research engineer at the San Jose Research Laboratory. Was Assistant Professor of Mechanical Engineering at the University of California; Assistant Professor of Theoretical and Applied Mechanics, Iowa State College; member of Technical Staff, Bell Telephone Laboratories. He has been concerned with Applied Mechanics and has specialized for the past two years in film lubrication. He is a member of the ASME, IAS, SESA, RESA, and Sigma Xi.

John M. Harker

B.S. in Mechanical Engineering, Swarthmore College 1950; Master of Engineering, University of California 1951. Joined IBM at the San Jose Product Development Laboratory in 1952 and has been engaged in the development of components for large-scale magnetic memories and in the planning of systems utilizing such components. Member of Sigma Tau.

Kenneth E. Haughton

B.S.M.E., University of California (Berkeley), 1952; M.S.M.E., Iowa State College, 1955. Joined IBM at San Jose Research Laboratory in 1957. Was instructor at Iowa State College, 1953-1956; instructor at Cornell University, 1956-1957. Member of ASME.

William A. Michael

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James H. North

B.A. in Physics, Williams College, 1952. Joined IBM in 1956 as an IBM 704 programmer for the Research Computing Center in Poughkeepsie. He is working on the machine solution of logical problems and is now an associate mathematician with the logic group at the Research Laboratory in Poughkeepsie, N. Y.

Alfred G. Osterlund

B.S.M.E., The Cooper Union, 1954. Joined IBM San Jose Research Laboratory in 1955 and has been engaged in research and development in the Random Access Memory areas since that time.

Richard F. Rutz

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Arthur L. Samuel

B.A. in Mathematics, College of Emporia, 1923; B.S.E.E. and M.S. at M.I.T., 1926; Honorary Sc.D. from College of Emporia, 1946. Electrical Engineering Instructor at M.I.T., 1926-28. Member of Technical Staff at Bell Telephone Laboratories, 1928-46, where he was mainly in electron-tube research. Professor of Electrical Engineering at University of Illinois, 1946-49. Joined IBM in 1949 and has been concerned with research problems under-

lying the design, construction and use of digital computers. Is presently Consultant to the Director of Research. Since 1947 has served as expert consultant to the Department of Defense and is Chairman of the Advisory Group on Electron Tubes. He has received awards from the Office of Scientific Research and Development and a commendation from the U. S. Navy. Holds over 50 U. S. patents and more than 200 foreign patents. Received the IRE Papers Award in 1947. He is well known for his design of gas-filled and high-vacuum electron tubes and his work in electron dynamics, solid-state physics and digital computers. Programming the IBM 704 is a mathematical recreation. He is a Fellow of the IRE and APS, and a member of the AIEE, Sigma Xi, AAAS and ACM.

D. F. Singer

B.S., John Brown University, 1949. Graduate work at University of Wisconsin, 1953-55. Instructor at Milwaukee School of Engineering, 1951-55. Joined IBM semiconductor group in 1955 at the Poughkeepsie Research Laboratory. Is currently engaged in measurement and analysis of semiconductor devices. Member of IRE and Electron Device Sub-Group.